

Table J1a.--Physical Properties of the Soils

(Entries under "Erosion factors--T" apply to the entire profile. Entries under "Wind erodibility group" and "Wind erodibility index" apply only to the surface layer. Absence of an entry indicates that data were not estimated.)

Map symbol and soil name	Depth	Sand RV	Silt RV	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
BrE: Bethesda-----	0-4	25	52	18-27	1.40-1.55	4.00-14.00	0.10-0.16	0.0-2.9	0.5-0.5	.28	---	5	8	0
	4-65	---	---	18-35	1.60-1.90	1.40-4.00	0.04-0.10	0.0-2.9	---	.32	---			
Other soils-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Rock outcrop-----	0-60	0	0	0-0	---	---	---	---	0.0-0.0	.02	.02	1	---	0
BuC: Buchanan-----	0-5	37	44	10-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	---	.24	.32	3	---	---
	5-28	---	---	18-30	1.30-1.60	4.00-14.00	0.10-0.16	0.0-2.9	---	.24	.28			
	28-65	---	---	18-35	1.40-1.70	0.42-1.40	0.06-0.10	0.0-2.9	---	.17	.24			
BuD: Buchanan-----	0-5	37	44	10-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	---	.24	.32	3	---	---
	5-28	---	---	18-30	1.30-1.60	4.00-14.00	0.10-0.16	0.0-2.9	---	.24	.28			
	28-65	---	---	18-35	1.40-1.70	0.42-1.40	0.06-0.10	0.0-2.9	---	.17	.24			
Cn: Chagrin-----	0-6	25	56	10-27	1.20-1.40	4.00-14.00	0.20-0.24	0.0-2.9	2.0-4.0	.32	.32	5	5	56
	6-28	---	---	18-30	1.20-1.50	4.00-14.00	0.14-0.20	0.0-2.9	---	.32	.37			
	28-65	---	---	5-25	1.20-1.40	4.00-14.00	0.08-0.20	0.0-2.9	---	.32	.43			
Holly-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---
DAM: Dam-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GaC: Gilpin-----	0-7	25	54	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3	---	---
	7-27	---	---	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	---	.24	.28			
	27-30	---	---	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9	---	.24	.32			
	30-34	---	---	---	---	1.40-4.00	---	---	---	---	---			
GaD: Gilpin-----	0-7	25	54	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3	---	---
	7-27	---	---	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	---	.24	.28			
	27-30	---	---	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9	---	.24	.32			
	30-34	---	---	---	---	1.40-4.00	---	---	---	---	---			
GaE: Gilpin-----	0-7	25	54	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3	---	---
	7-27	---	---	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	---	.24	.28			
	27-30	---	---	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9	---	.24	.32			
	30-34	---	---	---	---	1.40-4.00	---	---	---	---	---			
GaF: Gilpin-----	0-7	25	54	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3	---	---
	7-27	---	---	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	---	.24	.28			
	27-30	---	---	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9	---	.24	.32			
	30-34	---	---	---	---	1.40-4.00	---	---	---	---	---			
GDF: Gilpin-----	0-7	25	54	15-27	1.20-1.40	4.00-14.00	0.08-0.14	0.0-2.9	---	.24	.32	3	---	---
	7-27	---	---	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	---	.24	.28			
	27-30	---	---	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9	---	.24	.32			
	30-34	---	---	---	---	1.40-4.00	---	---	---	---	---			
Dekalb-----	0-4	37	48	10-20	1.20-1.50	42.00-141.00	0.08-0.12	0.0-2.9	2.0-4.0	.17	.24	2	---	---
	4-27	---	---	7-18	1.20-1.50	42.00-141.00	0.06-0.12	0.0-2.9	---	.17	.24			
	27-34	---	---	5-15	1.20-1.50	42.00-141.00	0.05-0.10	0.0-2.9	---	.17	.24			
	34-38	---	---	---	---	1.40-4.00	---	---	---	---	---			
Other soils-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GuC: Gilpin-----	0-7	25	54	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3	---	---
	7-27	---	---	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	---	.24	.28			
	27-30	---	---	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9	---	.24	.32			
	30-34	---	---	---	---	1.40-4.00	---	---	---	---	---			
Upshur-----	0-5	25	54	15-27	1.20-1.40	4.00-14.00	0.12-0.16	3.0-5.9	1.0-4.0	.43	.43	3	6	48
	5-39	---	---	40-55	1.30-1.60	0.42-1.40	0.10-0.14	6.0-8.9	---	.32	.32			
	39-65	---	---	27-45	1.30-1.60	0.42-1.40	0.08-0.12	3.0-5.9	---	.32	.32			
Other soils-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GuD: Gilpin-----	0-7	25	54	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3	---	---
	7-27	---	---	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	---	.24	.28			
	27-30	---	---	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9	---	.24	.32			
	30-34	---	---	---	---	1.40-4.00	---	---	---	---	---			

Table J1a.--Physical Properties of the Soils--Continued

Map symbol and soil name	Depth	Sand RV	Silt RV	Clay	Moist bulk density	Saturated hydraulic conductivity	Available water capacity	Linear extensi- bility	Organic matter	Erosion factors			Wind erodi- bility group	Wind erodi- bility index
										Kw	Kf	T		
Upshur-----	In	Pct	Pct	Pct	g/cc	um/sec	In/in	Pct	Pct					
	0-5	25	54	15-27	1.20-1.40	4.00-14.00	0.12-0.16	3.0-5.9	1.0-4.0	.43	.43	3	6	48
	5-39	---	---	40-55	1.30-1.60	0.42-1.40	0.10-0.14	6.0-8.9	---	.32	.32			
	39-65	---	---	27-45	1.30-1.60	0.42-1.40	0.08-0.12	3.0-5.9	---	.32	.32			
Other soils-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GuE:														
Gilpin-----	0-7	25	54	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3	---	---
	7-27	---	---	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	---	.24	.28			
	27-30	---	---	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9	---	.24	.32			
	30-34	---	---	---	---	1.40-4.00	---	---	---	---	---			
Upshur-----	0-5	25	54	15-27	1.20-1.40	4.00-14.00	0.12-0.16	3.0-5.9	1.0-4.0	.43	.43	3	6	48
	5-39	---	---	40-55	1.30-1.60	0.42-1.40	0.10-0.14	6.0-8.9	---	.32	.32			
	39-65	---	---	27-45	1.30-1.60	0.42-1.40	0.08-0.12	3.0-5.9	---	.32	.32			
	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Other soils-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GWF3:														
Gilpin-----	0-7	25	54	15-27	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	0.5-4.0	.32	.32	3	---	---
	7-27	---	---	18-35	1.20-1.50	4.00-14.00	0.12-0.16	0.0-2.9	---	.24	.28			
	27-30	---	---	15-35	1.20-1.50	4.00-14.00	0.08-0.12	0.0-2.9	---	.24	.32			
	30-34	---	---	---	---	1.40-4.00	---	---	---	---	---			
Upshur-----	0-5	25	54	15-27	1.20-1.40	4.00-14.00	0.12-0.16	3.0-5.9	1.0-4.0	.43	.43	3	6	48
	5-39	---	---	40-55	1.30-1.60	0.42-1.40	0.10-0.14	6.0-8.9	---	.32	.32			
	39-65	---	---	27-45	1.30-1.60	0.42-1.40	0.08-0.12	3.0-5.9	---	.32	.32			
	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Other soils-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Ha:														
Hackers-----	0-10	25	54	15-27	1.20-1.40	4.00-14.00	0.18-0.24	0.0-2.9	2.0-4.0	.32	.32	4	5	56
	10-54	---	---	18-35	1.30-1.50	4.00-14.00	0.12-0.18	3.0-5.9	---	.37	.37			
	54-65	---	---	18-35	1.30-1.50	4.00-14.00	0.12-0.18	0.0-2.9	---	.28	.28			
JaE:														
Janelew-----	0-3	25	52	18-27	1.65-1.95	1.40-14.00	0.13-0.16	0.0-2.9	1.0-5.0	.24	.32	5	6	---
	3-65	---	---	23-35	1.65-1.95	1.40-14.00	0.09-0.13	3.0-5.9	---	.20	---			
Lh:														
Lobdell-----	0-6	25	54	15-27	1.20-1.40	4.00-14.00	0.20-0.24	0.0-2.9	1.0-3.0	.37	.37	5	5	56
	6-32	---	---	18-30	1.25-1.60	4.00-14.00	0.17-0.22	0.0-2.9	---	.37	.43			
	32-65	---	---	15-30	1.20-1.60	4.00-42.00	0.12-0.18	0.0-2.9	---	.37	.43			
Other soils-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Holly-----	0-3	25	54	15-27	1.20-1.40	4.00-14.00	0.20-0.24	0.0-2.9	2.0-5.0	.28	.28	5	6	48
	3-24	---	---	18-30	1.20-1.50	1.40-14.00	0.17-0.21	0.0-2.9	---	.28	.32			
	24-32	---	---	10-27	1.20-1.45	4.00-42.00	0.10-0.20	0.0-2.9	---	.28	.32			
	32-65	---	---	10-27	1.20-1.40	4.00-42.00	0.07-0.18	0.0-2.9	---	.28	.37			
MoB:														
Monongahela-----	0-10	25	56	10-27	1.20-1.40	4.00-14.00	0.18-0.24	0.0-2.9	2.0-4.0	.43	.43	3	5	56
	10-29	---	---	18-35	1.30-1.50	4.00-14.00	0.10-0.18	0.0-2.9	---	.43	.43			
	29-56	---	---	18-35	1.30-1.60	0.42-4.00	0.08-0.12	0.0-2.9	---	.43	.49			
	56-65	---	---	10-35	1.20-1.40	1.40-4.00	0.08-0.12	0.0-2.9	---	.37	.43			
Ms:														
Moshannon-----	0-7	25	54	15-27	1.20-1.50	4.00-14.00	0.20-0.24	0.0-2.9	1.0-3.0	.37	.37	5	6	48
	7-42	---	---	18-32	1.20-1.50	4.00-14.00	0.18-0.22	0.0-2.9	---	.37	.37			
	42-65	---	---	12-32	1.20-1.50	4.00-14.00	0.14-0.18	0.0-2.9	---	.37	.43			
Po:														
Pope-----	0-8	64	26	5-15	1.20-1.40	14.00-42.00	0.10-0.16	0.0-2.9	1.0-4.0	.28	.28	5	---	86
	8-44	---	---	5-18	1.30-1.60	4.00-42.00	0.10-0.18	0.0-2.9	---	.28	.28			
	44-65	---	---	5-20	1.30-1.60	4.00-42.00	0.10-0.18	0.0-2.9	---	.28	.20			
Sn:														
Senecaville-----	0-7	25	54	15-27	1.20-1.40	4.00-14.00	0.18-0.24	0.0-2.9	2.0-4.0	.32	.32	5	5	56
	7-35	---	---	18-35	1.20-1.40	1.40-14.00	0.12-0.18	3.0-5.9	---	.37	.37			
	35-65	---	---	18-35	1.20-1.40	4.00-14.00	0.12-0.18	0.0-2.9	---	.28	.28			
Holly-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Su:														
Sensabaugh-----	0-5	25	58	8-25	1.25-1.40	4.00-42.00	0.12-0.18	0.0-2.9	1.0-3.0	.24	.24	5	---	---
	5-25	---	---	18-35	1.30-1.50	4.00-42.00	0.10-0.16	0.0-2.9	---	.20	.24			
	25-37	---	---	12-35	1.30-1.50	4.00-42.00	0.10-0.15	0.0-2.9	---	.17	.24			
	37-65	---	---	12-38	1.25-1.50	4.00-42.00	0.08-0.14	0.0-2.9	---	.17	.20			
Holly-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uf:														
Udorthents-----	0-3	18	49	27-40	---	---	---	---	0.0-0.0	---	---	---	---	---

Table J1a.--Physical Properties of the Soils--Continued

[illegible]